

WHAT IS CLAIMED:

1 1. A motor, comprising:
2 a stator having stator poles configured to produce
3 electromagnetic flux when electrically energized;
4 a conduit positioned between the stator poles; and
5 a rotor positioned within the conduit and having
6 rotor poles and rotatable in response to the electromagnetic
7 flux, the poles having laminations sufficiently skewed for
8 pumping fluid through the conduit during rotation.

1 2. The motor of claim 1, wherein the conduit
2 comprises a tube.

1 3. The motor of claim 2, wherein the tube is
2 affixed to the stator poles.

1 4. The motor of claim 3, wherein the outer
2 circumference of the tube includes interlocks.

1 5. The motor of claim 2, wherein the tube is
2 formed from plastic.

1 6. The motor of claim 2, wherein the tube is
2 formed from metal.

1 7. The motor of claim 2, wherein the tube is
2 non-magnetic.

1 8. The motor of claim 1, wherein the conduit
2 comprises a packed stator.

1 9. The motor of claim 1, wherein the conduit is
2 formed by a configuration of the stator.

1 10. The motor of claim 1, wherein the rotor
2 includes a coating.

1 11. The motor of claim 1, wherein the motor
2 comprises a switched reluctance motor.

1 12. The motor of claim 1, wherein the motor
2 comprises an induction motor.

1 13. The motor of claim 1, wherein the motor
2 comprises a permanent magnet synchronous motor.

1 14. The motor of claim 1, wherein the motor
2 comprises a salient pole synchronous motor.

1 15. The motor of claim 1, wherein the motor
2 comprises a DC motor.

1 16. The motor of claim 1, wherein the conduit
2 provides a substantially air-tight seal for the fluid to
3 flow along the rotor.

1 17. A motor having skewed rotor laminations for
2 pumping fluid, the motor comprising:

3 a fixed stator having stator poles;

4 a rotatable rotor having sufficiently skewed
5 laminations to move fluid when rotated; and

6 a conduit positioned between the stator and the
7 rotor for substantially directing the moved fluid.

1 18. The motor of claim 20, wherein the conduit
2 comprises a tube affixed to the stator.

1 19. A method for pumping fluid, the method
2 comprising:
3 providing a motor having a stator and a laminated
4 rotor rotatable relative to the stator;
5 skewing the rotor laminations sufficiently to pump
6 fluid through the motor when the rotor rotates;
7 rotating the rotor to pump the fluid; and
8 confining the fluid around the rotor as the fluid
9 is pumped.

1 20. The method of claim 19, further comprising
2 confining the fluid with a conduit that produces a
3 substantially air-tight seal as the fluid flows around the
4 rotor and collecting reliable flow data on the pumped fluid.